Remote Sensing of Environment

Author Index - Volume 1

Allen, W. A., 19, 103, 199 Anding, D., 217 Bliamptis, E. E., 93 Braithwaite, J. G., 203 Bowden, L. W., 23 Cardenas, R., 19, 103, 199 Caspall, F., 131 Chivian, J. S., 221 Eden, D. D., 221 Egan, W. G., 165 Esposito, R., 81 Gausman, H. W., 19, 103, 199 Glaser, A. H., 95 Greaves, J. R., 95 Greenwood, J. A., 59, 71 Hansen, D. V., 161 Haralick, R. M., 131 Hauth, F. F., 7 Hickman, G. D., 47 Hogg, J. E., 47 Horvath, R., 203 Howell, R. L., 13 Jackson, F. C., 59, 71 Kauth, R., 217 Knipling, E. B., 155 Leamer, R. W., 103

Lent, J. D., 31 Lewis, A. J., 231 Lyon, R. J. P., 237 MacDonald, H. C., 143, 231 Maul, G. A., 161 Moore, E. G., 109 Myers, V. I., 103 Nathan, A., 59, 71 Neumann, G., 59, 71 Noble, V. E., 151, 187 Nunnally, N. R., 1 Pease, R. W., 23, 59, 71, 123, 195 Pierson, W. J., 59, 71 Planet, W. G., 127 Polcyn, F. C., 203 Ruff, I. S., 181 Schumer, M. A., 81 Schupp, M., 199 Sherr, P. E., 95 Simonett, D. S., 131 Strong, A. E., 181 Thorley, G. A., 31 Waite, W. P., 143 Weinman, J. A., 7 Wilkins, E. M., 221 Wilkerson, J. C., 187

Remote Sensing of Environment

Title Index - Volume 1

Absorptance, influence of ammonia-induced cellular discoloration within cotton leaves (Gossypium hirsutum L.) on light reflectance, absorptance and transmittance, 199

Ammonia, induced cellular discoloration (Influence within cotton leaves) (Gossypium hirsutum L.) on light reflectance, transmittance and absorptance, 199

Apollo 9, SO-65 photography, spectral variations of cloud reflectance deduced from, 4

Atmosphere, effects of atmospheric path on airborne multispectral sensors, 203

Nomogram relating true and apparent radiometric temperatures of gray-bodies in the presence of, 93

Probing techniques for transmission absorption spectroscopy of planetary atmospheres using satellites, 81

Bathymetric, measurements (application of an airborne pulsed laser) (nearshore), 47

Cloud, reflectance (spectral variations of cloud reflectance deduced from Apollo 9 SO-65 photography), 4

Cover statistics and their use in the planning of remote sensing missions, 95

above snow surfaces utilizing radiation measurements obtained from the Nimbus II satellite, 7

Color, infrared film (more information relating to the highaltitude use), 123

Infrared film as a negative material, 195

Cotton, leaves (reflectance and their structure), 19

The influence of ammonia-induced cellular discoloration within leaves (Gossypium hirsutum L.) on light reflectance, transmittance and absorptance, 199

Crop identification, (optical stokes parameters), 165

Discrimination with radar imagery – a statistical and conditional probability study, 131

Currents, a note on the use of sea surface temperature for observing ocean currents, 161

Cycocel, - treated cotton (reflectance of single leaves and field plots (Gossypium hirsutum L.) in relation to leaf structure), 103

Equipment, and techniques for low-altitude aerial sensing of water-vapor concentration and movement, 13

Geodesy, (radar altimetry from a spacecraft – potential applications), 59

Geology, geological mapping, from orbiting satellites, multiband approach, 4

Graybodies, (nomogram relating true and apparent radiometric temperatures in the presence of an atmosphere), 93

Housing quality, (application of remote sensors to the classification of areal data at different scales), 109

Infrared, – near (physical and physiological basis for the reflectance of visible and near-infrared radiation from vegetation), 155

Inventory, (some observations on the use of multiband spectral reconnaissance for inventory of wildland resources), 31

Landscape, – integrated, analysis with radar imagery, 1 Laser, – (airborne pulsed for bathymetric measurements (near-shore), 47

Mosaicking, (interpretive and mosaicking problems of radar imagery), 4

Multispectral (multiband), reconnaissance for the inventory of wildland resources, 31

Approach to geological mapping from satellites, 237

Negative material, (color infrared film), 195

Nomogram, relating true and apparent radiometric temperatures of graybodies in the presence of an atmosphere, 93

Optical stokes, parameters for farm crop identification, 165

Physical, and physiological basis for the reflectance of visible and near-infrared radiation from vegetation, 155

Physiological, (and physical basis for the reflectance of visible and near-infrared radiation from vegetation, 155

Planets, planetary atmospheres (probing techniques for transmission absorption spectroscopy using satellites), 81

Radar altimetry, (oceanographic applications from a spacecraft), 71

From a spacecraft and its potential applications to geodesy, 59

Radar imagery, (snowfield mapping with K-band), 143 Integrated landscape analysis with . . .), 1

Crop discrimination: a statistical and conditional probability study with, 131

Interpretive and mosaicking problems of SLAR imagery, 4 Radiation, measurements (investigation of clouds above snow surfaces, obtained from the Nimbus II satellite, 7

(Physical and physiological basis for the reflectance of visible and near-infrared from vegetation), 155

Reflectance, of cotton leaves and their structure, 19

Measurements of wet soils, 127

The influence of ammonia-induced cellular discoloration within cotton leaves (Gossypium hirsutum L.) on light reflectance, transmittance and absorptance, 199

Physical and physiological basis of visible and near-infrared radiation from vegetation, 155

Of single leaves and field plots of cycocel-treated cotton (Gossypium hirsutum L.) in relation to leaf structure, 103 Utilizing satellite – observed solar reflections from the sea surface as an indicator of surface wind speeds, 181

Remote sensing, application of remote sensors to the classification of areal data at different scales: a case study in housing quality, 109

Planning of remote sensing missions (the use of cloud cover statistics), 95

Making color infrared film more effective at high-altitude, 23

Satellites, solar reflections from the sea surface as an indicator of surface wind speeds, 181

Ocean swell measurements from space photographs, 151

Probing techniques for transmission absorption spectroscopy of planetary atmospheres, 93

Nimbus II – investigation of clouds above snow surfaces utilizing radiation measurements, 7

Spacecraft radar altimetry and its potential applications to geodesy, 59

Oceanographic applications of radar altimetry from, 71 Space, estimation of sea surface temperature from, 217

Sea, surface (utilizing satellite - observed solar reflections as an indicator of surface wind speeds), 181

Surface temperature, (a note on the use for observing ocean currents), 161

Ocean swell measurements from satellite photographs, 151 Oceanographic applications of radar altimetry from a spacecraft, 71

 Snow, surface (investigation of clouds above, utilizing radiation measurements obtained from the Nimbus II satellite, 7
 Snowfield mapping with K-band radar imagery, 143

Soils, some comments on reflectance measurements of wet, 127 Solar, utilizing satellite – observed reflections from the sea surface as an indicator of surface wind speeds, 181

Spectral, variations of cloud reflectance deduced from Apollo 9 SO-65 photography, 4

Spectroscopy, transmission absorption spectroscopy (probing techniques of planetary atmospheres using satellites), 81

Surface wind speeds, utilizing satellite – observed solar reflections from the sea surface as an indicator, 181

Swell, ocean measurements from satellite photographs, 151

Temperature, sea surface (a note on the use for observing ocean currents), 161

Mapping flights - Norwegian sea - summer 1968, 187 Estimates from space, 217

True and apparent radiometric temperatures (nomogram of graybodies in the presence of an atmosphere), 93

Transmittance, the influence of ammonia-induced cellular discoloration within cotton leaves (*Gossypium hirsutum L.*) on light reflectance, and absorptance, 199

Vegetation, physical and physiological basis for the reflectance of visible, and near-infrared radiation, 155

Visible, physical and physiological basis for the reflectance of near-infrared radiation from vegetation, 155

Water-vapor, concentration and movement (equipment and techniques for low-altitude aerial sensing), 13

Wet soils, some comments on reflectance measurements, 127
Wildland resources, some observations on the use of multiband
spectral reconnaissance for the inventory, 31